Appl. No.: 10/655,222 Docket No.: 0951-0126P

Office Action dated May 10, 2007

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims** 

1. (Currently Amended): An optical transmission apparatus, comprising:

a plurality of ports for transmitting and/or receiving one or more signals substantially as

defined at IEEE 1394;

at least one of the ports being for transmitting and/or receiving one or more optical signals;

and

one or more protocol conversion means for carrying out signal transmission protocol

conversion at a physical-layer level on at least one of the optical signals transmitted and/or received

by said at least one of the ports; and

wherein one or more bus management means-co-manages for co-managing one or more

signal buses which are respectively connected externally to at least a portion of the plurality of ports,

wherein

said one or more protocol conversion means is an application-level protocol conversion

means which carries out mutual conversion between two formats of signal transmission protocols at

an application level, and

respective signals according to the two formats of signal transmission protocols mutually

converted by the application-level protocol conversion means are assigned together to a series of

packets, and the respective signals are transmitted simultaneously in said packets.

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Claim 2 (Canceled)

3. (Currently Amended): The optical transmission apparatus according to claim-21 wherein

at least one of the application-level protocol conversion means carries out conversion

between or among one or more DV-format signal transmission protocols and one or more MPEG-

2TS-format signal transmission protocols.

4. (Currently Amended): The optical transmission apparatus according to claim-21 wherein

at least one of the application-level protocol conversion means carries out conversion

between or among one or more 1-bit audio signal transmission protocols and one or more multi-bit

audio signal transmission protocols.

5. (Currently Amended): The optical transmission apparatus according to claim 4 wherein

at least one of the multi-bit audio signal transmission protocol or protocols is substantially as

defined at IEC 60958.

6. (Currently Amended): The optical transmission apparatus according to claim 4 wherein

at least one of the multi-bit audio signal transmission protocol or protocols is substantially as

defined at MPEG Audio Layer-3.

7. (Currently Amended): The optical transmission apparatus according to claim-21 wherein

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one or more of the application-level protocol conversion means take the form of one or more replaceable modules.

8. (Currently Amended)÷ Electronic equipment comprising one or more optical transmission

apparatuses according to any of claims 1-through 7 and 3-7.